



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D3121-23
Job Sheet 169280



Part No: D3121-23

Job Qty: 50 ea

Part Name: Bearing



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 12/6/17

Job Tracking No:

Due Date: 12/13/17

Created By: Diane Baker

Type: Stock

Description:

Note: DWG REV E IPP A: 04.02.19 New Issue KJ/DS IPP Rev:B ECN 1060 07-11-12 DD verified by:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	50 pcs		12/13/17	0.00	0.00	Purchasing		SP17-129
110	Packaging	50 pcs		12/13/17	0.00	0.00	Packaging2		SP17-129
120	QC	50 pcs		12/13/17	0.00	0.00	QC6		38
130	Packaging	50 pcs		12/13/17	0.00	0.00	Packaging3-1	5/018	9-89
140	QC21-SA	50 Ea		12/13/17	0.00	0.00	QC21		DEC 13 2017

Part Op 100 - Issue P/O P030577 Bearing as per Dwg D3121 Possible Supplier: SKF P/N: 61900-2Z or KML P/N: 6900-
Descriptions: ZZ

110 - Ensure Material Release Note is attached

120 - Inspect dimensions as per Dwg D3121 and attached certification Dwg Rev ____

DEC 06 2017

MB

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
100-Purchasing	6900ZZ	50	0	0	0

Part Specifications

Specifications could not be found.

DART
AEROSPACE
S019349

Dart Aerospace Ltd.

1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



Bearing

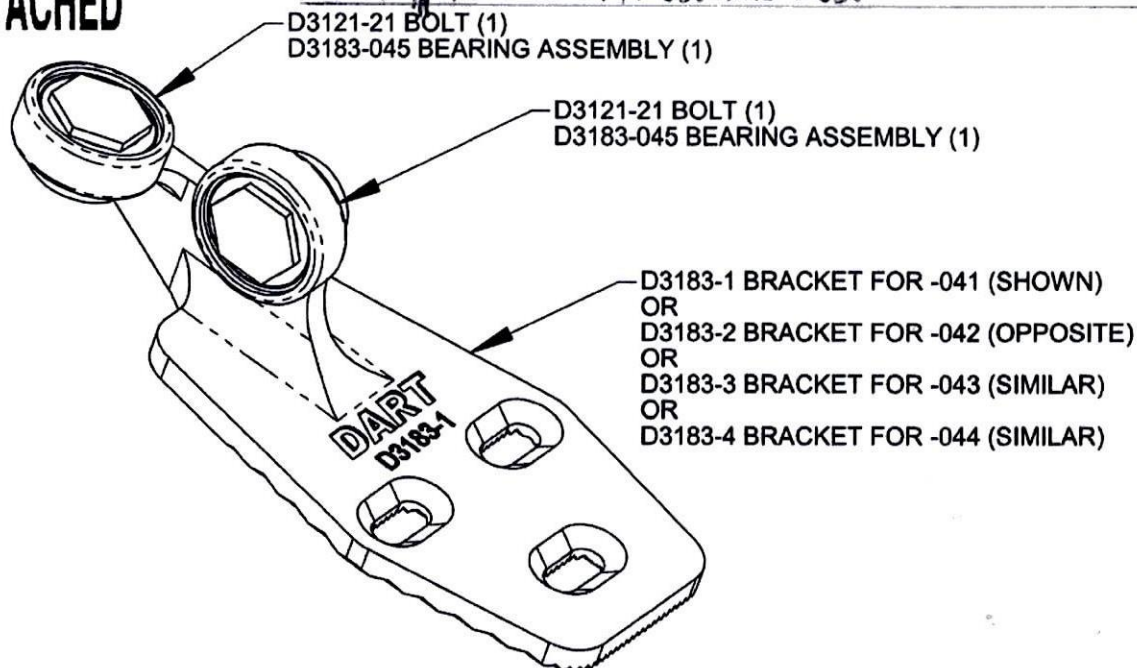
PART NO: D3121-23
Revision:
Operation: Purchasing
Change No:

Mfg Date: 12/09/17 Job No: 169280
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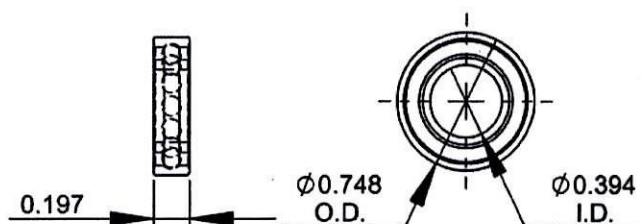


DESIGN #	DRAWN BY CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. D3183	REV. C SHEET 1 OF 4
DATE 04.02.17		TITLE BRACKET ASSEMBLY	SCALE 1:1
A	03.01.24	NEW ISSUE	
B	03.06.17	REMOVE BEARING; 1.012 WS 0.882	
C	04.02.17	ADD -045/-9; 0.182 WAS 0.431	
C1	04.11.09	0.830 WAS 0.850	

RELEASED
04.03.01
DEO ATTACHED

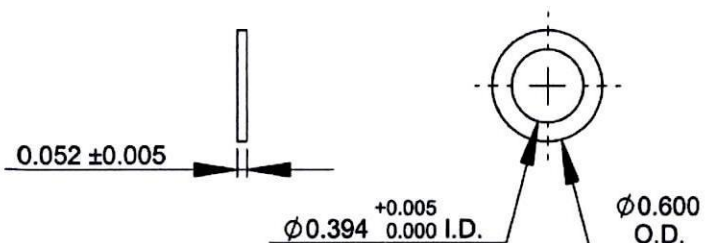


D3183-041 BRACKET ASSEMBLY (SHOWN)
D3183-042 BRACKET ASSEMBLY (OPPOSITE)
D3183-043 BRACKET ASSEMBLY (SIMILAR)
D3183-044 BRACKET ASSEMBLY (SIMILAR)



D3183-5 BEARING:
SPECIFICATION CONTROL DRAWING

- 1) SINGLE ROW, DEEP GROOVE, CONRAD TYPE, SHIELDED
- 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES



D3183-7 WASHER

- 1) MATERIAL: AISI 303 ROUND BAR (M303R) ANNEALED
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES

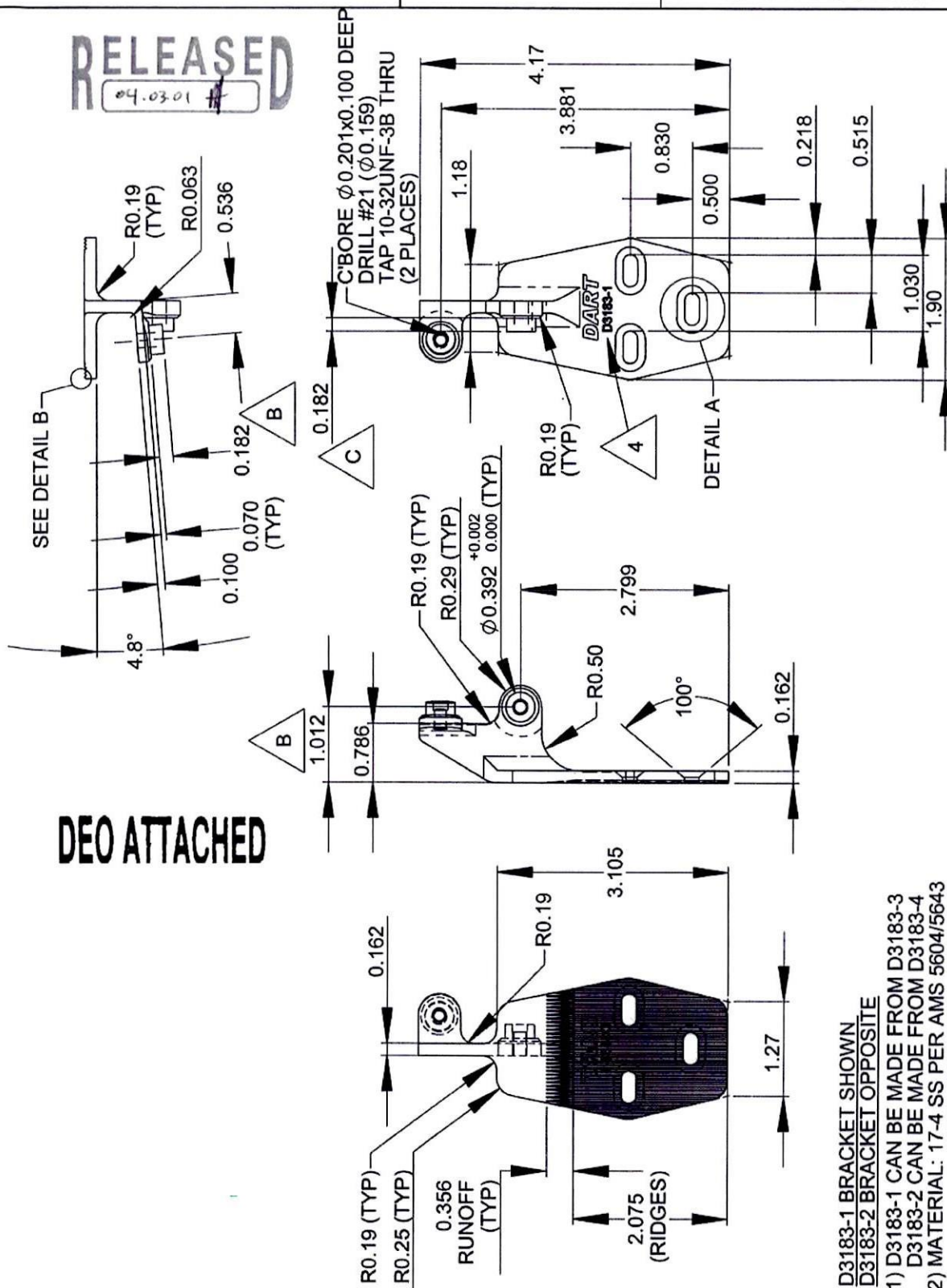
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DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO. D3183	REV. C SHEET 2 OF 4
DATE 04.02.17	TITLE BRACKET ASSEMBLY		SCALE 1:2

RELEASED
04.03.01



DEO ATTACHED

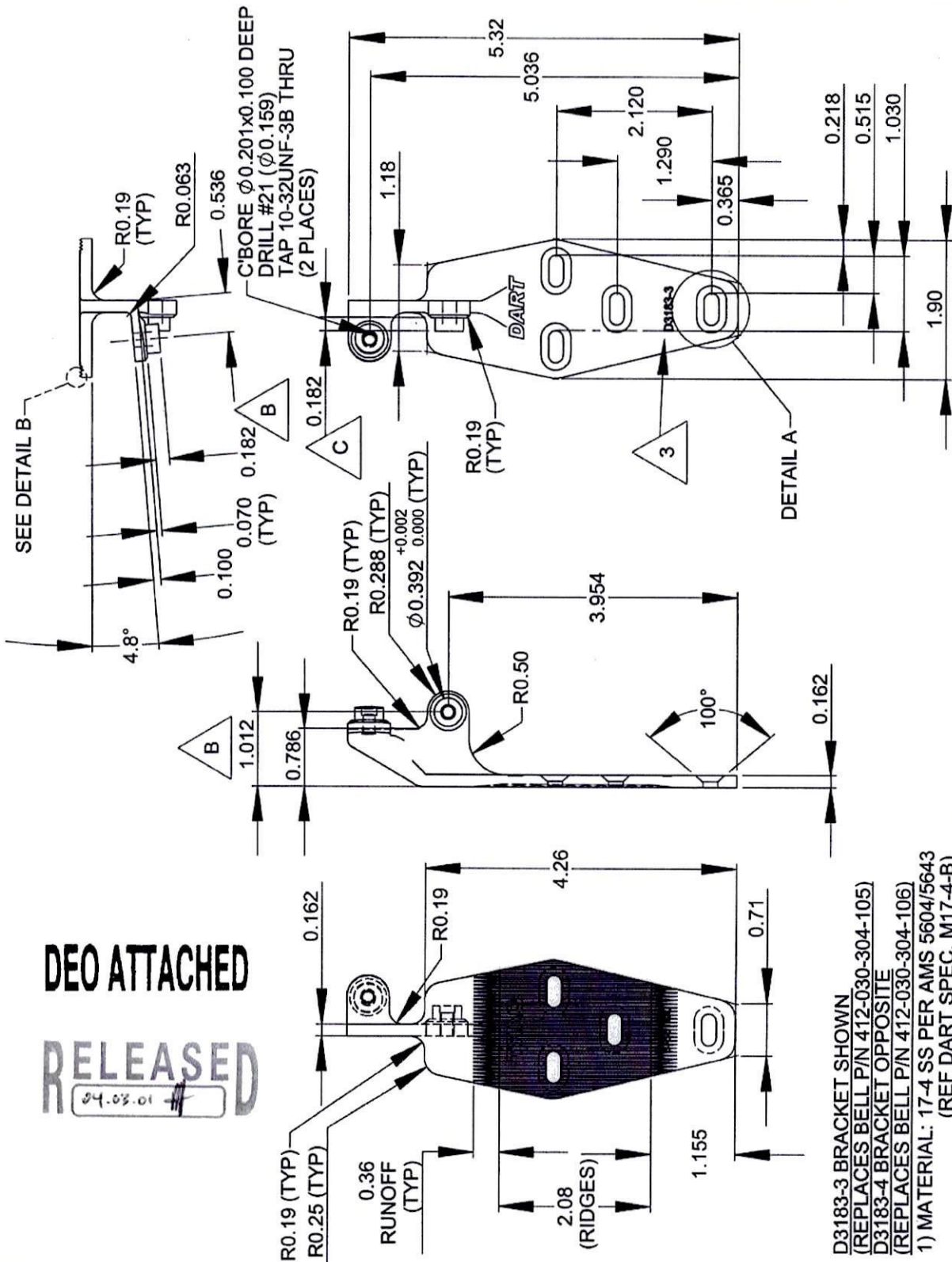
- D3183-1 BRACKET SHOWN**
D3183-2 BRACKET OPPOSITE
- 1) D3183-1 CAN BE MADE FROM D3183-3
D3183-2 CAN BE MADE FROM D3183-4
 - 2) MATERIAL: 17-4 SS PER AMS 5604/5643
(REF DART SPEC. M17-4-B)
MIN ULTIMATE STRENGTH = 150 ksi
MIN YIELD STRENGTH = 100 ksi
 - 3) BREAK ALL SHARP EDGES 0.005 TO 0.015
 - 4) ENGRAVE DART P/N & LOGO AS SHOWN
 - 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 6) ALL DIMENSIONS ARE IN INCHES

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DART

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CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3183	REV. C SHEET 3 OF 4
DATE 04.02.17	TITLE BRACKET ASSEMBLY		SCALE 1:2

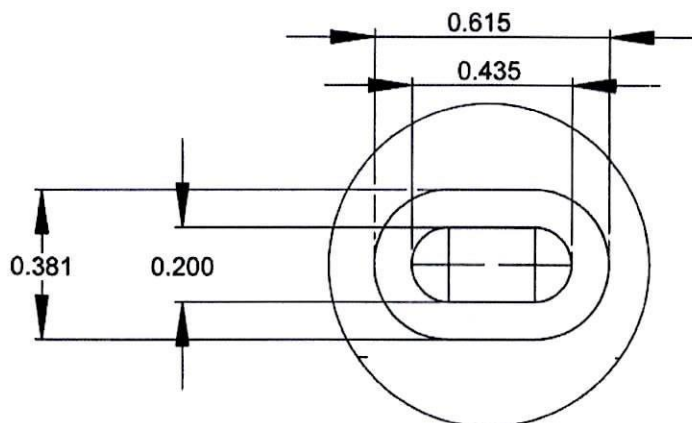
**DEO ATTACHED****RELEASED**

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DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3183
DATE 04.02.17	TITLE BRACKET ASSEMBLY	REV. C SHEET 4 OF 4 SCALE 1:1

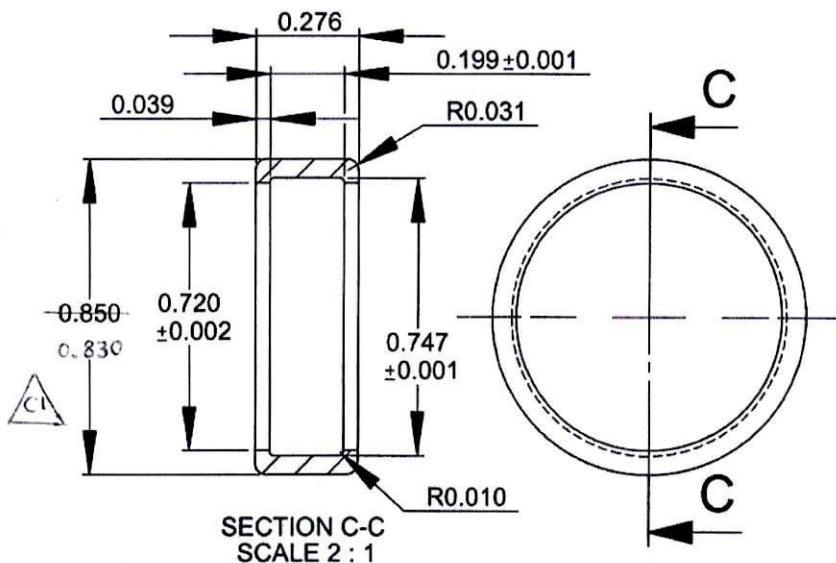
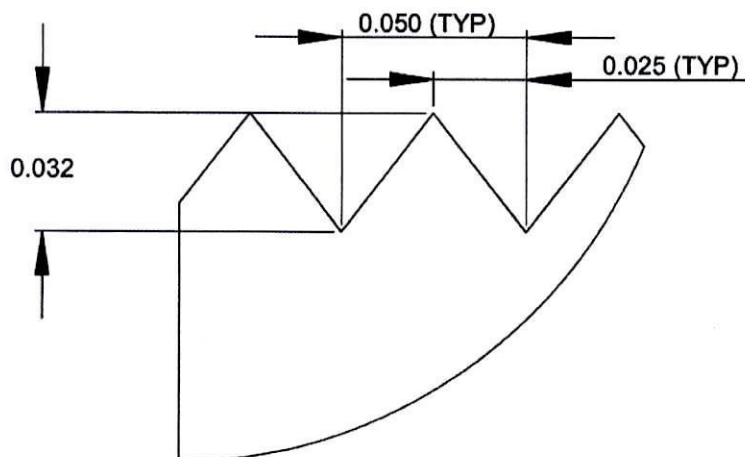


DETAIL A (2 : 1)

RELEASED
04.03.01 *[Signature]*

DEO ATTACHED

DETAIL B (20 : 1)



D3183-9 CAP

- 1) MATERIAL: DELRIN ROD, Ø1.00
(REF DART SPEC. M-DELRIN-R1.00)
- 2) TOLERANCES ARE PER DART QSI 018
UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES

D3183-045 BEARING ASSEMBLY

- 1) ASSEMBLE D3183-5 BEARING AND
D3183-9 CAP

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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038577

Supplier: MAI001-VC
Main Industrial Sales Ltd.
1475, Tessier
Hawkesbury
ON
K6A 3S6 Canada
Phone: 613 632 3595
Fax: 613 632 0262

PO No: PO038577

PO Date: 12/6/17

Due Date: 12/13/17

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

E-MAILED
DEC 16 2017

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items									
Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	5/16WC	Washer - Stock	Firmed	12/13/17	500 Ea	0 Ea	500 Ea	\$0.032/Ea	\$16.00
2	6800ZZ	Bearing - Stock job# 169277	Firmed	12/13/17	150 pcs	0 pcs	150 pcs	\$1.48/pcs	\$222.00
3	6900ZZ	Bearing - Stock job# 169280	Firmed	12/13/17	50 pcs	0 pcs	50 pcs	\$1.62/pcs	\$81.00
4	PFS-FW14S1	Washer - Stock job# 169241	Firmed	12/13/17	1,500 Ea	0 Ea	1,500 Ea	\$0.027/Ea	\$40.50
5	PFS-LNNC5/16S1	Lock Nut - job# 169279 Stock	Firmed	12/13/17	100 Ea	0 Ea	100 Ea	\$0.10/Ea	\$10.00
6	CL-2-C	Lanyard Wire - Stock	Firmed	12/13/17	400 ft	0 ft	400 ft	\$0.70/ft	\$280.00
Grand Total:									\$649.50

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

MAIN INDUSTRIAL SALES LTD.

1475 TESSIER ST.
HAWKESBURY ON K6A 3S6
Phone: (613) 632-3595 Ext. Fax: (613) 632-0262
sales@mainindustrialsales.com

Packing Slip

DATE December 08, 2017
NUMBER 0000215808
CUSTOMER NO. DART

BILL TO:

DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY ON K6A 1K7

SHIP TO:

DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY ON K6A 1K7

(613) 632-5200 Ext.

(613) 632-5200 Ext.

P.O. NUMBER	SALESPERSON	ORDER DATE	REQ. DATE	ORDER NUMBER	
38577	EB	06-Dec-17		0000215808	
F.O.B.	SHIP VIA	TERMS			
F.O.B. value	OUR TRUCK / LOCAL	NET 30 DAYS			
PART NUMBER	DESCRIPTION	LOCATION	UOM	QUANTITY	B.O.
0-516FWSS	5/16 18-8 FLAT WASHER	26A6	EA	500	500
YOUR PART #: 5/16VC					
0-68002ZKML	BALL BEARING	6D6	EA	150	150
YOUR PART #: 6800ZZ					
0-69002ZKML	KML BALL BEARING	6D6	EA	50	50
YOUR PART #: 6900ZZ					
0-14FWSS	1/4 18-8 FLAT WASHER	26A6	EA	1,500	1,500
YOUR PART #: PFS-FW14S1					
0-516CNLNSS	5/16-18 18-8 NYLON LOCKNUT	26C6	EA	100	100
YOUR PART #: PFS-LNNC5/16S1					
0-CL2C	LANYARD		FT	400	400
THANKS ERIC					

DAE
38
9-89

SPR-12-9.

CERTIFICATE OF COMPLIANCE

RE: 6900-ZZ BEARING

To Whom It May Concern:

Our bearing rings and balls are made of high carbon chromium steel GCr15 which has a chemical composition equivalent to SAE 52100. The hardness of bearing rings is HRC 59-64 and HRC 60-65 for steel balls. Unless specify, bearings are 25-30% filled with Alvania No. 2 grease or Chevron SRI#2 grease or equivalent.

Stella Fan
Phone: 905-629-4255
Fax: 905-629-2358

